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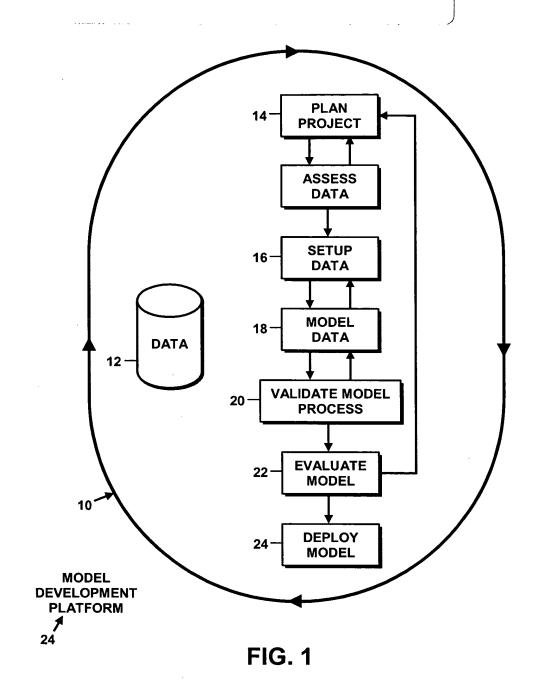
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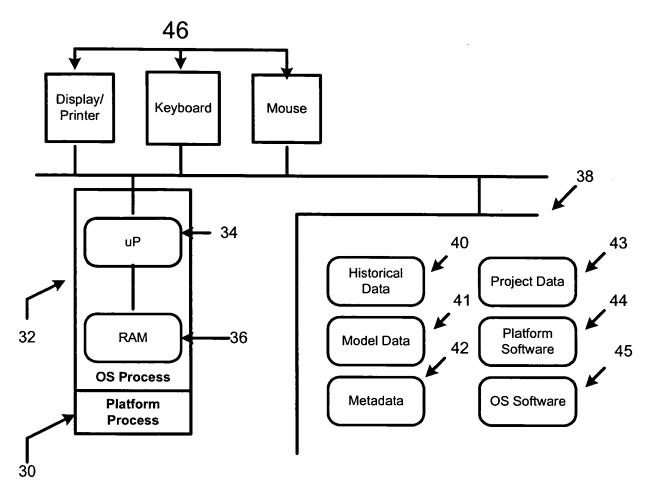


FIGURE 2

50

Data Type Unique Number indexing Model Projects Reference Name for Model Project Unique Number Indexing Model Projects
Reference Name for Model Project
Type of Model to be constructed (Response, Clone, Suppression,)
Analyst-defined goal for current Model Project
Identifying Time Stamp for first use
Last used Time Stamp
Full pethname reference to Development detaset
Full pethname reference to metadeta and Model status and data
Full pathname reference to log of Analyst decisions
Target variables selected for Model
Desired ci-index for Model set by Analyst
Desired zone of positive Model Gain set by Clenk
Desired zone of positive Model Gain set by Clenk
Desired zone of positive Model Gain set by Clenk
Desired zone of positive Model Gain set by Clenk
Desired level of Monotonicity
Total number of records in Development Detaset
Number of successful outcomes as a percent of total Development Dataset Size
Size of Training Sample as a percent of total Development Dataset Size used for Candidate Model
Initial Number of Predictor Variables: Graphs and Statistics
Distribution of Predictor Variables: for Positive and Negative Outcomes
Cross-validated Partition Tree for Key Predictor Variables
Number of Predictor Variables Eliminated for Missing Variables Text Project type
Project type
Project type
Project Bogin Date
Project Dotsor
Project Dotsor
Project Data Date
Project Data Data
Project Data Dictionary Date/Time Date/Time Text ProjectLog
DependentVariable - 62 Text ModelFitnessCriterion Number ModelPerformanceCriterion
ModelPerformanceVinterion
DevelopmentDatesetSize
PositiveOutcomes(%) Number Number Number Number SampleSize(%) Number VariableCount SampleDistribution Hyperink Hyperink Hyperink SampleByDistribution Transversacion of recent in the for Key Productor variables. Number of Predictor Versibles Eliminated for Missing Variables. Cutoff set by Analyst for Percent of Missing Values Acceptable. Number of Predictor Versibles Retained for Main Effects. Cutoff set by Analyst for Significance of Main Effects. Number of Predictor Variables Retained for Interaction Effects. DimensionReductionMissingFilter
DimensionReductionCutoff Number DimensionReductionMainEffects
DimensionReductionMainEffectsCutoff
DimensionReductionInteractionEffects Number Number or Predictor Variables Retained for Interaction Effects
Cutoff set by Analyst for Significance of Interaction Effects
Number of Predictor Variables resulting from Dimension Reduction
Model Type applied to Dimension Reduced Dataset
Retention Cutoff or Significance Level for Model Variables
Model Riting Results
Model Non-cumulative Lift Chart DimensionReductionInteractionEffectsCutoff Number DimensionReductionVariableCount CandidateModelChoice Text CandidateModelChoiceConstraint CandidateModelResults CandidateModelLiftChart CandidateModelPersistenceChart Number Hyperlink Hyperlink Hyperlink Text Model Persistence Chart for Key Variables Method Selected for Model Development Process Validation Model Application to Validation Dataset(s) Results **ValidationMethod** Hyperink Hyperink ValidationMethor/Requits ValidationMethodLiftChart Model Validation Lift Chart Model evaluation Lift Chart Model Development Process applied to full Development Dataset Results Final Model applied to Sample and Validation Datasets for Cumulative Lift Final Model applied to Sample and Validation Datasets for Non-cumulative Lift Model Parameterized Equation using Model Transformed Variables Full pathname reference to Scoring File Imput Dataset FinalModelResults FinalModeLiftChartCo Final Model Non Cumulative Lift Chart Comparison Hyperlink FinalModelEquation Text ScoringDataset Text DevelopmentScoringComparison
DevelopmentScoringDistributionComparison Hyperlink Hyperlink Key Variable Comparison on Decile Basis Propensity Score Distribution for Development and Scoring File (Subset) Full pathname reference to Scoring File Output Dataset ScoredResuks Text Method for Ranking Customer Insight Variables Ranked List of Key Variables Insight Chart of Key Variable Differential Contribution InsightProfileMethod InsightProfile Text Hyperlink InsightProfileChart FinalReportEntry Hyperlink Memo Final Report Description and Comments

FIGURE 3

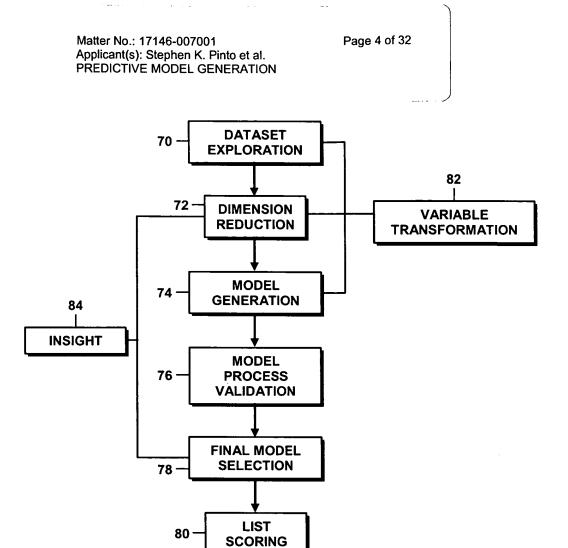


FIG. 4

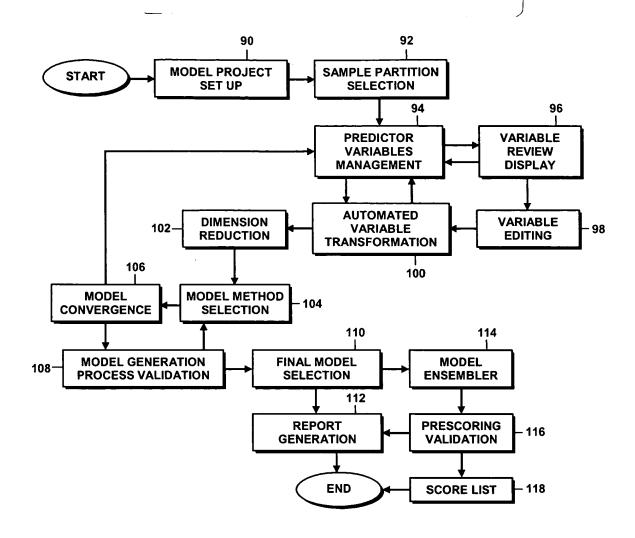


FIG. 5

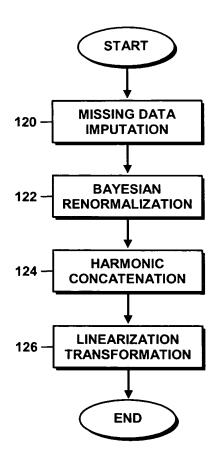


FIG. 6

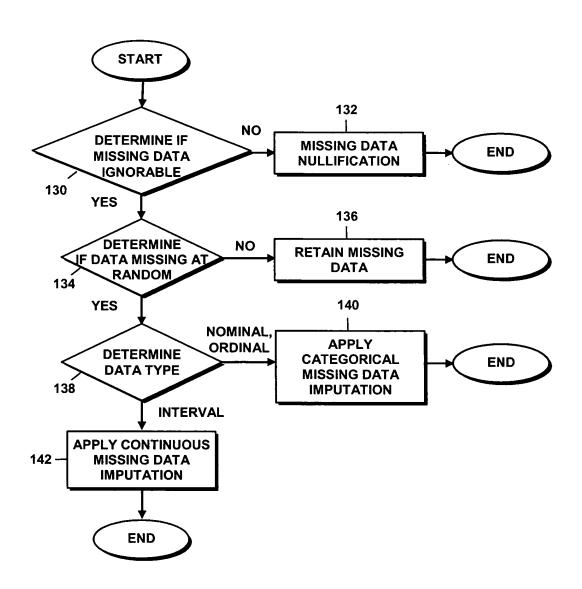


FIG. 7

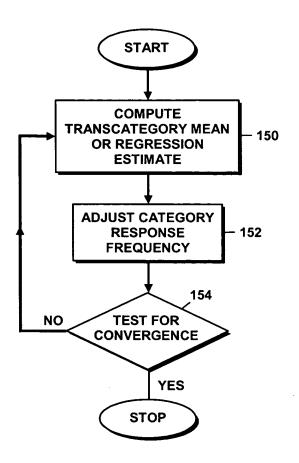


FIG. 8

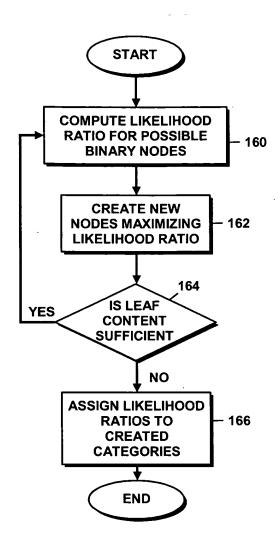


FIG. 9

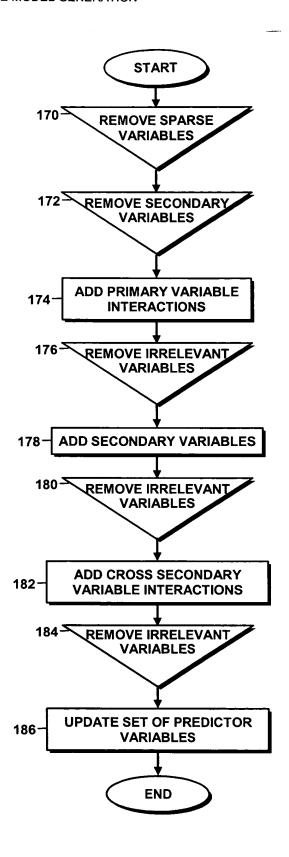


FIG. 10

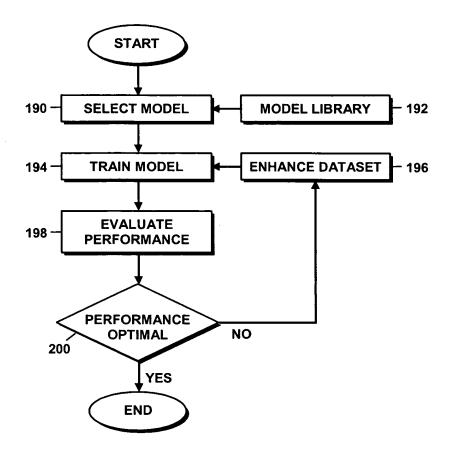


FIG. 11

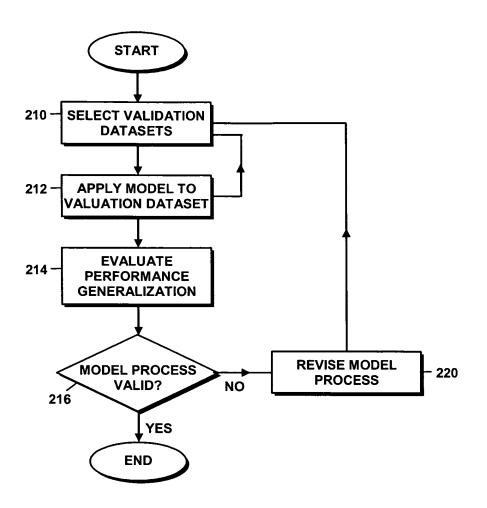


FIG. 12

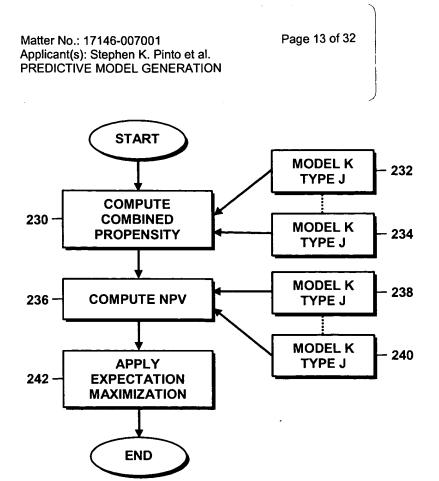


FIG. 13

START DEMOGRAPHIC 250 252 - 254 **DATASET TRANSACTIVE DATASET DATASET AGGREGATION ECONOMETRIC** -256 **DATASET VARIABLE** 258 **TRANSFORMATIONS** 260 262 **DIMENSION DIMENSION** REDUCTION **REDUCTION** 264 **MODELING** 266 **IMPACT FILTERING CUSTOMER** 268 **PROFILING**

FIG. 14

END

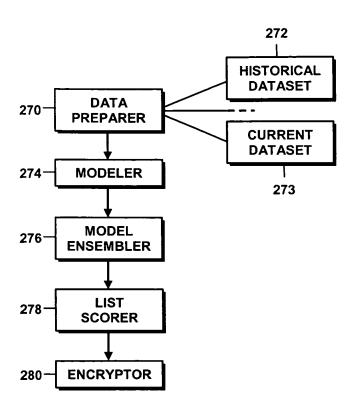
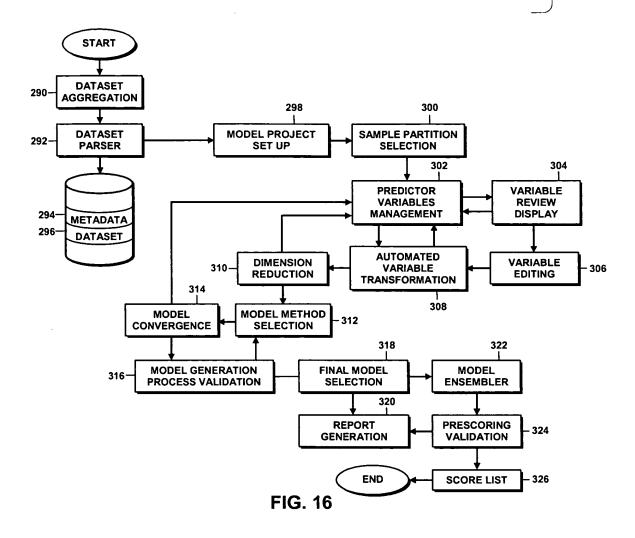


FIG. 15



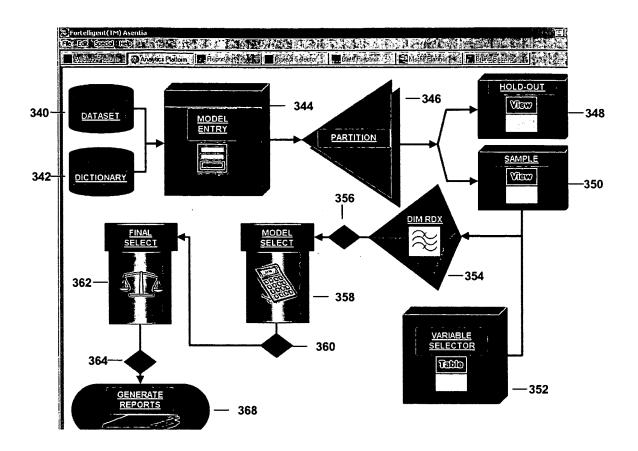


FIG. 17

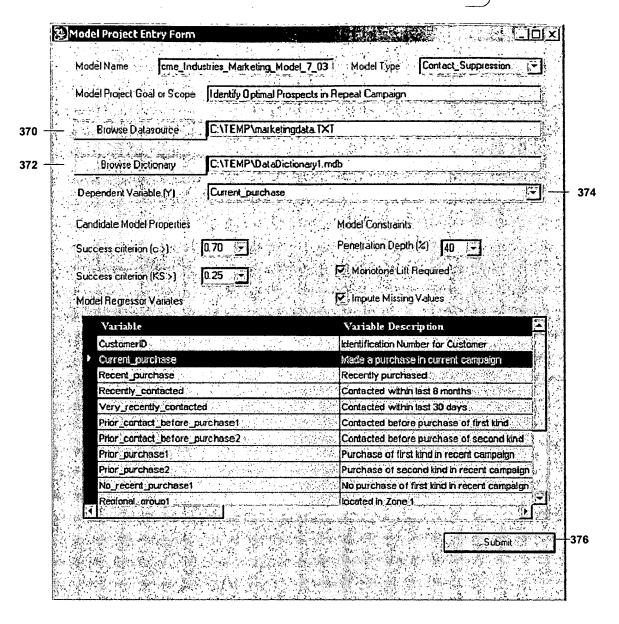


FIG. 18A

⊞ DataDictionary: Table							
	Variable	Variable Type	Variable Description	Variable Definition	Status		
Þ	CustomerID	N	Identification Number for Customer	CustomerlD	ΧP		
	Current_purchase	N	Made a purchase in current campaign	Current_purchase	Р		
	Recent_purchase	N	Recently purchased	Recent_purchase	Р		
	Recently_contacted	N	Contacted within last 8 months	Recently_contacted	Р		
Ξ	Very_recently_contacted	N	Contacted within last 30 days	Very recently contacted	Р		

FIG. 18B

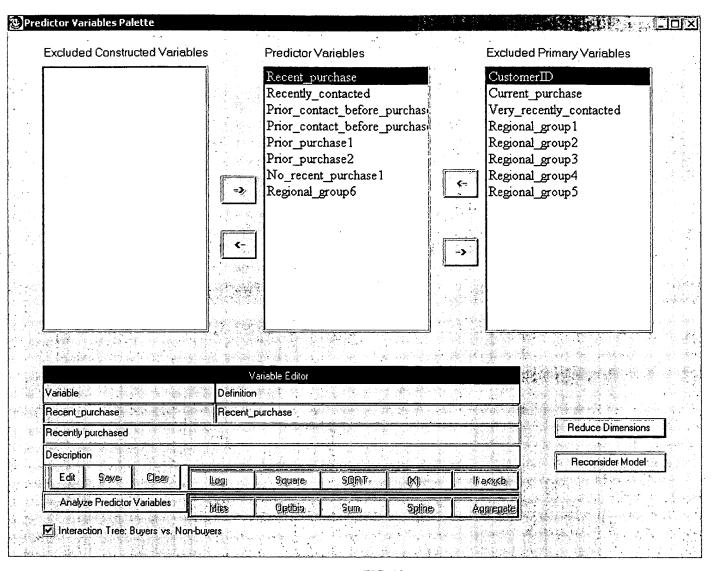


FIG. 19.

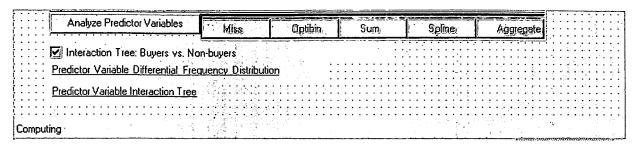


FIG. 20A

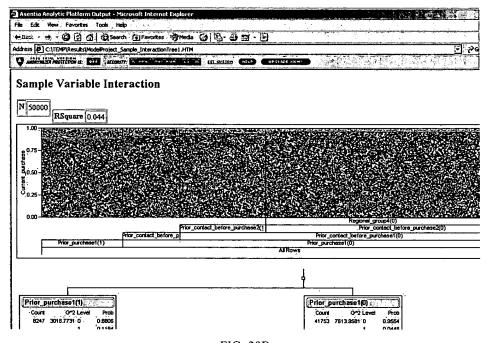


FIG. 20B

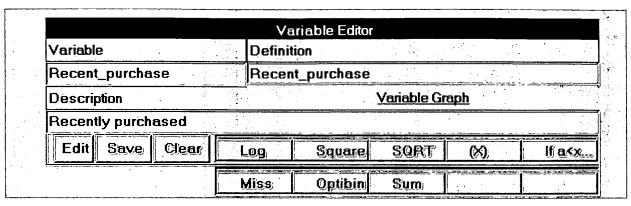


FIG. 21A

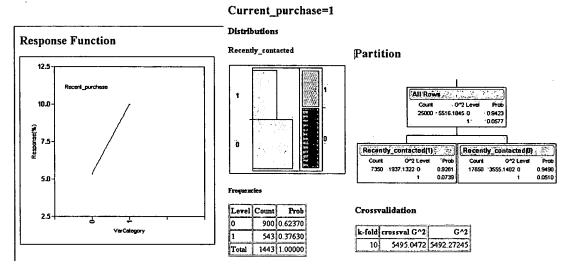


FIG. 21B

Variable Editor									
Variable	Definition	Definition							
Prior_purchase1_I Prior_purchase1*									
Description									
Purchase of first kind in recent campaign									
Edit Save Clear	Log	Square	SQRT	(×)					

FIG. 21C

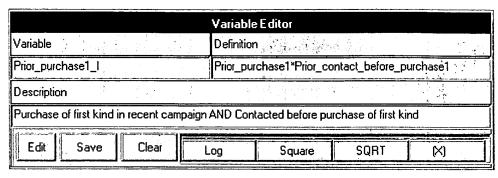


FIG. 21D

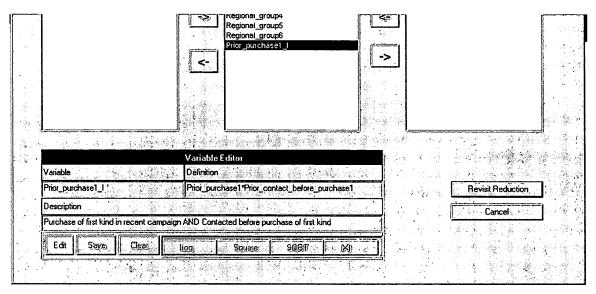


FIG. 21E

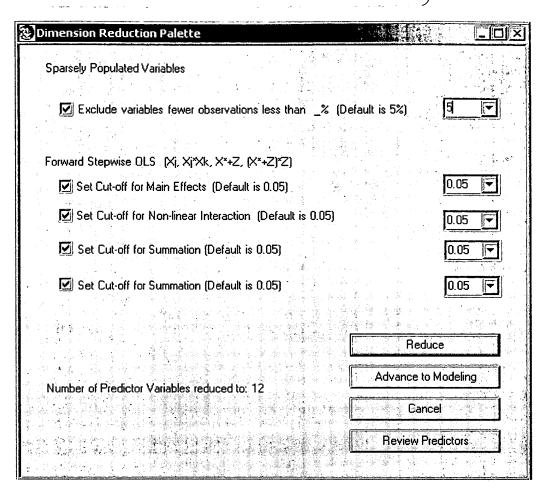


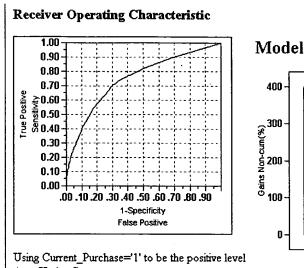
FIG. 22

Model Selection Palette	X COX					
(FMethods						
Stepwise Logistic Regression						
Logit Regression Method	Logit Regression Mode =					
Maximum Likelihood	Mixed					
Ordinary Least Squares	© Forward					
	O Backward					
Significance Levels for Predictor Variable Status Change						
Entry 0.30 🕶 Retain	0.30					
Stepwise Linear Discriminant Analy LDA Regression Assumptions Equal Variances Box Test Normal Distribution	C) Mixed C) Forward C) Backward					
Entry 0.30 Retain 0.30						
▼ Test for Model Variable Persistence Significance Levels for Predictor Variable Status Change						
Entry 0.25 Retain 0.025						

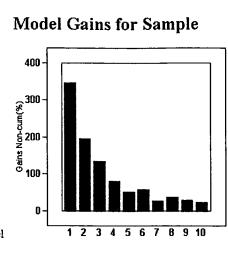
FIG. 23A

Matter No.: 17146-007001 Applicant(s): Stephen K. Pinto et al.

Applicant(s): Stephen K. Pinto et al. PREDICTIVE MODEL GENERATION



Using Current_Purchase='1' to be the positive level Area Under Curve = 0.74906



Decile

FIG. 23B

Persistence of Model for Key Predictor Variables

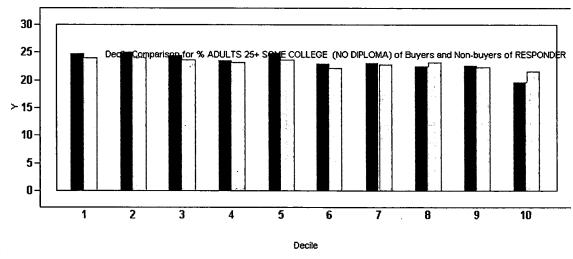


FIG. 23C

Page 26 of 32

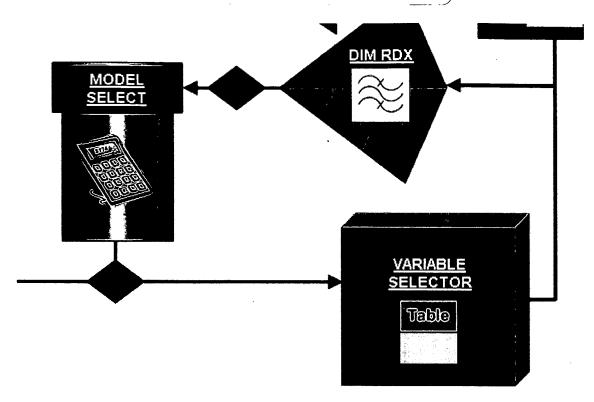


FIG. 24

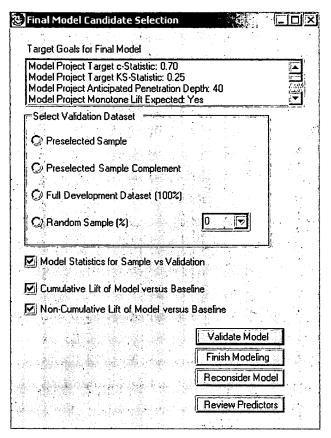
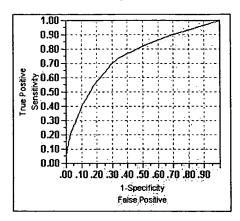


FIG. 25A

Page 28 of 32

Matter No.: 17146-007001 Applicant(s): Stephen K. Pinto et al. PREDICTIVE MODEL GENERATION

Receiver Operating Characteristic



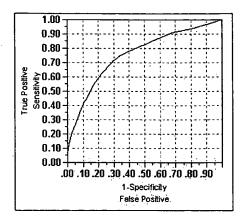
Using Current_Purchase='1' to be the positive level Area Under Curve = 0.74906

FIG. 25B

Page 29 of 32

Matter No.: 17146-007001 Applicant(s): Stephen K. Pinto et al. PREDICTIVE MODEL GENERATION

Receiver Operating Characteristic



Using Current_Purchase 1'1' to be the positive level Area Under Curve = 0.75884

FIG. 25C

Page 30 of 32

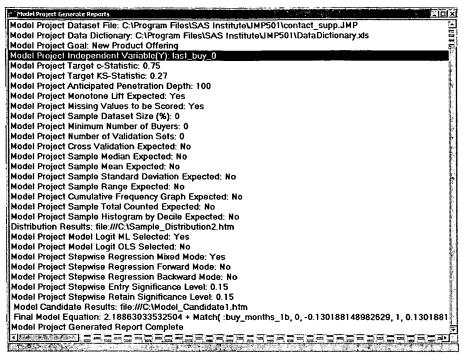


FIG. 26

Applicant(s): Stephen K. Pinto et al. PREDICTIVE MODEL GENERATION

Select Lowest Acceptable Match Rate (2)

| Target Profile Key Factors
| Target vs Non-larget Profile Key Factors | Get Insight |
| PageSetup |
| Print Preview |
| Print Cancel

FIG. 27A

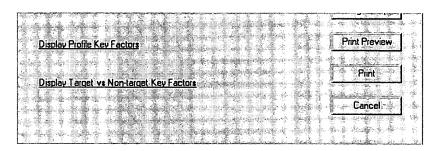
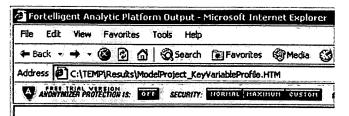


FIG. 27B

Applicant(s): Stephen K. Pinto et al. PREDICTIVE MODEL GENERATION

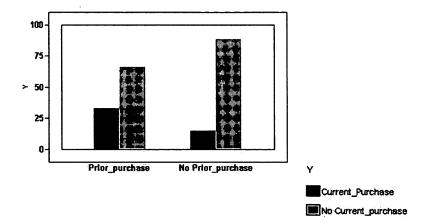


Current_purchase Profile

Existing users of Current_purchase tend to be . . .

- 1. Purchase of first kind in recent campaign
- 2. Contacted before purchase of first kind
- 3. Contacted within last 8 months
- 4. Purchase of second kind in recent campaign
- 5. No purchase of first kind in recent campaign
- 6. Recently purchased
- 7. Contacted before purchase of second kind
- 8. located in Zone 6

FIG. 27C



Characteristic

FIG. 27D